

## DGT AMI Penta Fertilizer Mixer

High-capacity fertigation for up to 100 irrigation groups

The AMI Penta is the fertigation computer for serious scale: up to one hundred irrigation groups with individual start conditions, twenty fertilizer recipes, and up to two hundred valves — thirty per group, nine running simultaneously. Everything is managed from a 10.1-inch multi-language touch screen, with all software included.

Fresh and return water blend by percentage ratio with up to eight return-water basins under individual control, and where rain or return water is in use, automatic filter cleaning rinses the incoming filters to a schedule — with up to three filters fitted, watering carries on while each is cleaned. The Senmatic Intelligent Irrigation Program (SIIP) starts irrigation from actual crop conditions, EC can track solar radiation, and absolute and relative EC/pH alarms plus flow alarms watch every batch.

The unit is modular: two to five dosing units on the small model (130 L tank), up to eight on the large (350 L), with one or two Grundfos main pumps; the AMIGO injector system extends flow to 200 m<sup>3</sup>/h. A bio-venturi upgrade turns the same unit into a bio mixer, the AMI Penta controller can be retrofitted to renovate an existing mixer, and DGT On the Go reports the whole system to your phone.

### Key capabilities

- Up to 100 irrigation groups with individual start conditions
- 20 fertilizer recipes with EC, pH and blend information
- Up to 200 valves; 30 per group; 9 simultaneously
- Dosing units: 2-5 (small, 130 L tank), 2-8 (large, 350 L), 6-8 (long, 130 L)
- 1 or 2 Grundfos main pumps | up to 8 return-water basins
- Automatic filter cleaning (up to 3 filters; watering continues)
- SIIP intelligent irrigation, solar-tracking EC, EC/pH and flow alarms
- 6 time zones per day with independent watering strategies
- Sun integrator, drain, volume and frost control; weekly programming
- Controller-only retrofit available for renovating existing mixers
- Upgradeable to bio mixer with bio-venturi; SuperLink PC control
- DGT On the Go connection for monitoring and control by phone

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### Technical specifications

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| <b>Supply voltage</b>                 | 3 x 230 V / 400 V AC (+10/-15%), 50/60 Hz |
| <b>Flow rate (inline)</b>             | 10 - 64 m <sup>3</sup> /h, 3 to 8 bar     |
| <b>Flow rate (AMIGO injector)</b>     | 40 - 200 m <sup>3</sup> /h, 3 to 9 bar    |
| <b>Main mixer pump</b>                | Grundfos, 1 or 2 pumps                    |
| <b>Mixing tank</b>                    | 130 L (small / long) or 350 L (large)     |
| <b>Irrigation valves</b>              | 24 V DC, 0.5 A                            |
| <b>Communication</b>                  | Ethernet; Powerlink to external expansion |
| <b>Operating temperature</b>          | 0 - 50°C, no direct sun radiation         |
| <b>Humidity</b>                       | 0 - 95% RH, without condensation          |
| <b>Protection rating</b>              | IP65                                      |
| <b>Dimensions (small, 2-5 dosing)</b> | 1200 x 790 x 1560 mm                      |
| <b>Dimensions (large, 2-8 dosing)</b> | 1530 x 1400 x 1700 mm                     |
| <b>Dimensions (long, 6-8 dosing)</b>  | 1530 x 790 x 1560 mm                      |

Sitetech Irrigation Ltd is the main UK distributor for DGT by Senmatic. We specify, install, commission and support every system we supply, and design it into the wider irrigation and climate setup on your site. For sizing, integration or a site visit, call Simon on 07881 271 117 or email [simon@sitetech.uk](mailto:simon@sitetech.uk).